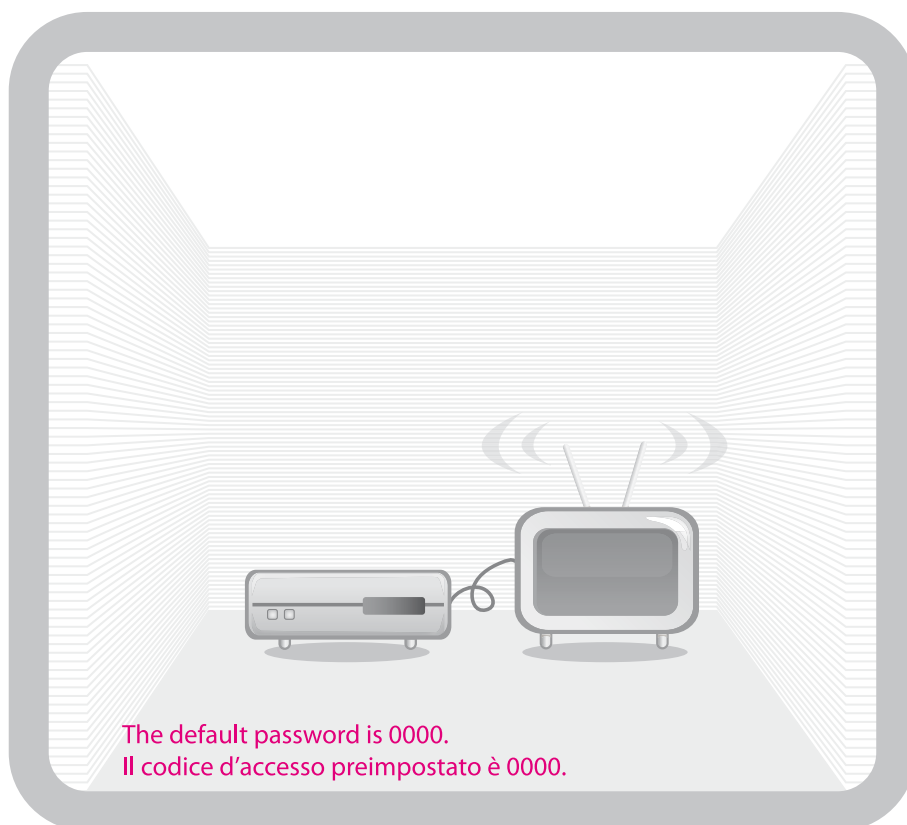

Digital Terrestrial & Satellite Receiver
Ricevitore digitale terrestre & satellitare



User's Manual/Manuale d'uso

COMBO-9000

HUMAX
EASY DIGITAL

Notice



Thank you for purchasing a HUMAX product. Please read this user's manual carefully to be able to safely install, use and maintain the product at maximum performance. Keep this user's manual next to your product for future reference. The information in this user's manual is subject to change without notice.

Copyright (Copyright © 2008 HUMAX Corporation)

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Warranty

The warranty does not cover parts which may become defective due to misuse of the information contained in this manual.

Trademarks

- Irdeto is a trademark of Mindport BV.
- Nagravision is a registered trademark of KUDELSKI S.A.
- Conax is a trademark of Telenor Conax AS.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**
Indicates a hazardous situation which could result in serious injury.
- **Caution**
Indicates a situation which could damage the equipment or other apparatus.
- **Note**
Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use and maintain the installation.

Notice



Meaning of Symbols



To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

Customer information



According to art. 13 of the Legislative Decree 25th July 2005, no. 15 „Application of the Directives 2002/95/CE, 2002/96/CE and 2003/108/CE, regarding the reduction of dangerous substances in electric and electronic products, as well as the waste disposal“.

The symbol with the crossed refuse bin, present on the product, indicates that the product must be collected separately from other refuse after his lifetime is expired.

This means that the customer must hand over the product at the end of the lifetime to an authorized collection center for electronic and electro technical refuse. As an alternative the customer can hand over the product to a dealer when he purchases an equivalent product, accordingly to the principle one in return for one.

A professional differentiated collection of no longer used products for recycling, utilization or disposal, helps to reduce negative consequences for the environment and the health. In addition the utilization of materials composing the product will be supported.

The illegal disposal of the product by the customer results in the application of the administrative fines according to Legislative Decree no. 22/1997 (article 50 and followings of Legislative Decree no. 22/1997).

Safety Warning



This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY

90-250V a.c., 50/60Hz

- Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company.
- Disconnect the product from the mains before you start any maintenance or installation procedures.

2. OVERLOADING

- Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. LIQUID

- The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

4. CLEANING

- Disconnect the product from the wall outlet before cleaning.
- Use a light damp cloth (no solvents) to dust the product.

5. VENTILATION

- The slots on top of the product must be left uncovered to allow proper airflow into the unit.
- Do not stand the product on soft furnishings or carpets.
- Do not stack electronic equipments on top of the product.

6. ATTACHMENTS

- Do not use any unsupported attachments as these may be hazardous or cause damage to the product.

7. CONNECTION TO THE SATELLITE DISH LNB/AERIAL

- Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish/aerial. Failure to do so can damage the LNB/aerial.

8. CONNECTION TO THE TV

- Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

9. EARTHING

- The LNB cable must be earthed to the system earth for the satellite dish.

Safety Warning



10. LOCATION

- Place the product indoors to avoid exposing it to lightning, rain or sun.
- Do not place it near a radiator or heat register.
- Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.
- Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
- If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
- Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall.
- A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

11. LIGHTNING, STORM OR NOT IN USE

- Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

12. EXTRANEIOUS OBJECTS

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

13. REPLACEMENT OF PARTS

- When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitution may result in additional damage to the unit.

Safety Warning



Warning

- 1. To avoid damage of the power cord or plug;**
 - Do not modify or process the power cord or plug arbitrarily.
 - Do not bend or twist the power cord.
 - Make sure to disconnect the power cord holding the plug.
 - Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
 - The mains plug, as a disconnection device, shall remain readily accessible by the user.
- 2. To avoid electrical shock;**
 - Do not open the main body.
 - Do not insert metal or inflammable objects inside the product.
 - Do not touch the power plug with wet hands.
 - Disconnect the power cord in case of lightning.
- 3. To avoid damage of product;**
 - Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
 - Do not insert metal or alien substance into the slots for the modules or Smartcards. It may cause damage to the product and reduce its life span.

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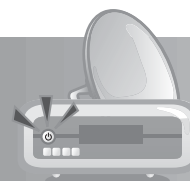
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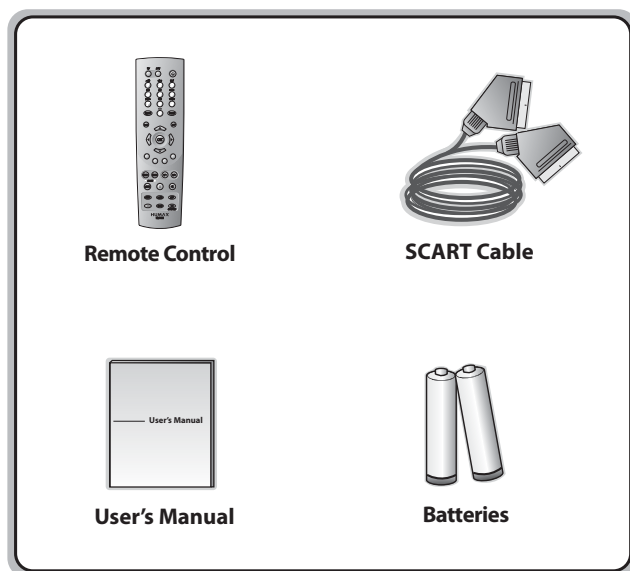
1. Before Using the Product



This chapter provides detail instructions on the product and its accessories.

1.1 Package Contents

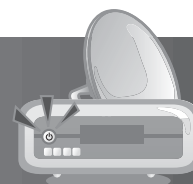
Please check all package contents before using your product.



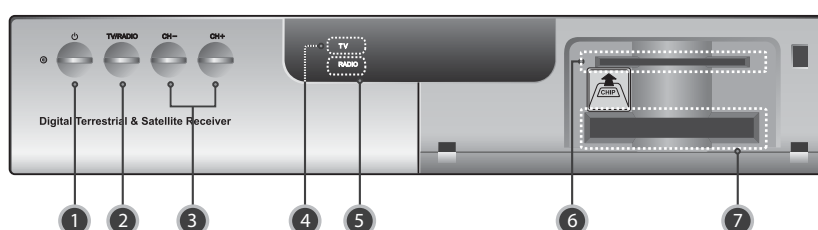
Note:

- Faults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- Package contents may vary according to area.

1. Before Using the Product



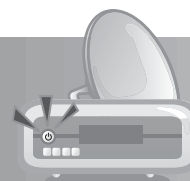
1.2 Front Panel



- 1. STANDBY BUTTON**
Switches between operation and standby modes.
- 2. TV/RADIO BUTTON**
Switches between TV and radio modes.
- 3. CH-/CH+ BUTTON**
Moves the TV/radio channel up or down.
- 4. TV LED**
Green light is emitted when the product is in TV mode.
- 5. RADIO LED**
Amber light is emitted when the product is in radio mode.
- 6. SMARTCARD SLOT**
A slot for a Smartcard
- 7. CI-MODULE SLOT**
A slot for a CI-Module

Note: The front of the product is subject to change without notice.

1. Before Using the Product



1.3 Conditional Access

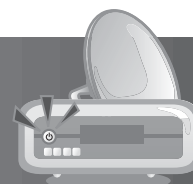
Although some TV and radio channels are free to air, most TV and radio/music channels are available on a subscription basis and can only be enjoyed via a Conditional Access component.

1. Inserting the Smartcard

1. Open the right-hand flap on the front panel of the product to expose the card slot.
2. Hold the Smartcard horizontally with the electronic chip (small square-shaped, gold in colour) facing upwards.
3. Insert the Smartcard into the top slot.



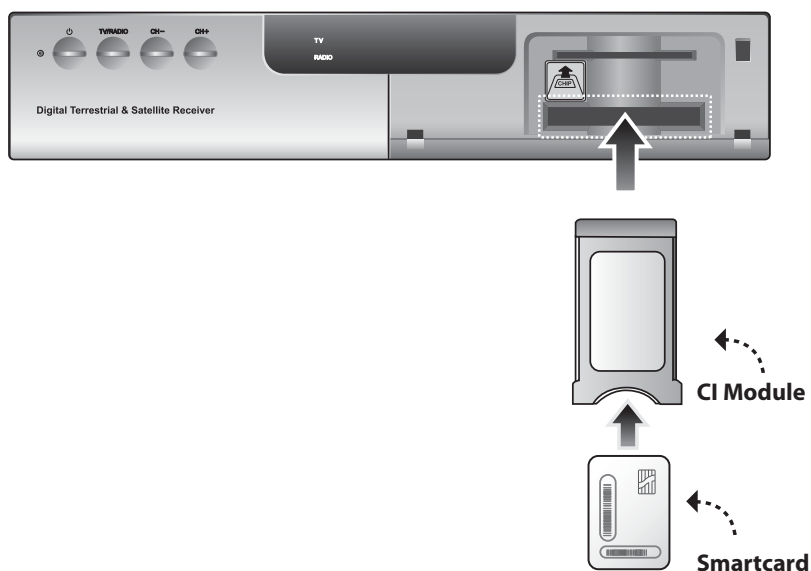
1. Before Using the Product



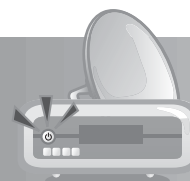
2. Inserting a CI (with Smartcard)

A CI module looks like a PC map (PCMCIA) for laptops. There are different kinds of CI Modules, suitable for different coding systems; Irdeto, Conax and more. Additionally to the CI module, a Smartcard is needed to decode the channels.

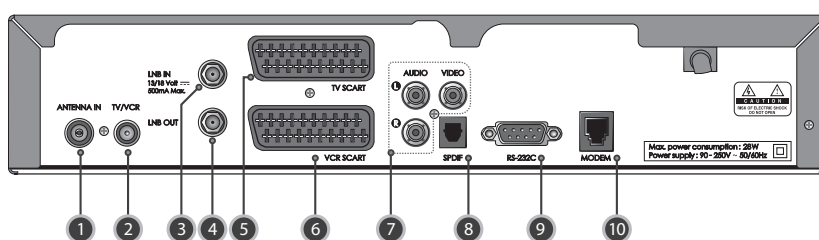
1. Open the right-hand flap on the front panel of the product to expose the card slot.
2. Follow the instructions of the module and insert the Smartcard into the CI module.
3. Keep the CI module (with the Smartcard) horizontal.
4. Insert the CI module into the slot.



1. Before Using the Product



1.4 Rear Panel



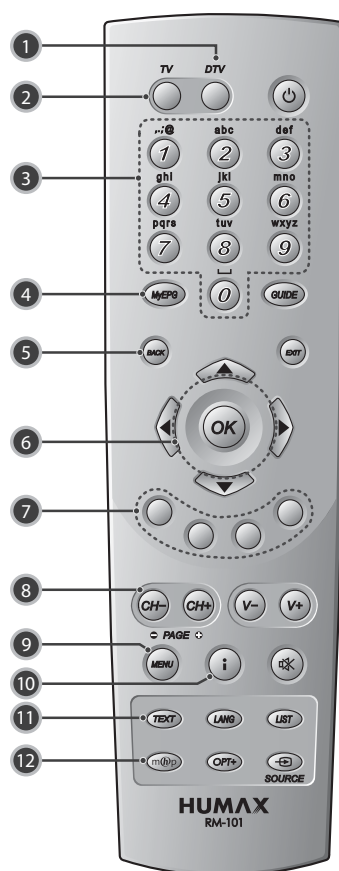
- 1. ANTENNA IN**
Connects the aerial cable.
- 2. TV/VCR**
Connects to the RF IN of the TV using an RF cable.
- 3. LNB IN**
Connects a satellite antenna cable.
- 4. LNB OUT**
Connects another digital satellite receiver.
- 5. TV SCART**
Connects to the TV using a TV SCART cable.
- 6. VCR SCART**
Connects to the VCR or DVD using a VCR SCART cable.
- 7. AUDIO/VIDEO**
Connects to the TV or VCR using an RCA cable.
- 8. SPDIF**
Connects to the audio system using an S/PDIF cable. (digital audio)
- 9. RS-232C**
Connects to the PC to update software.
- 10. MODEM**
Connects to the telephone line.

Note: The rear of the product is subject to change without notice.

1. Before Using the Product



1.5 Remote Control

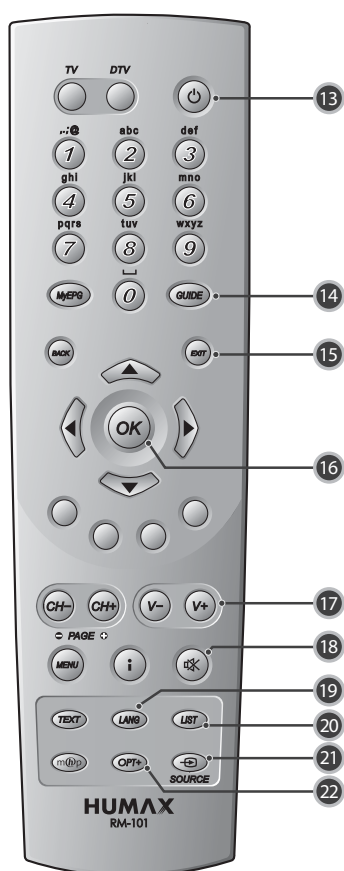
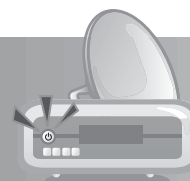


1. **DTV**
Controls the receiver.
2. **TV**
Controls the TV.
3. **NUMERIC(0-9) BUTTONS**
Enters a TV/radio channel number or menu option number.
4. **MyEPG**
Displays the MyEPG.
5. **BACK**
Closes and returns to the previous menu and screen.
6. **ARROW BUTTONS**
Changes the channel or moves the cursor up, down, left or right.
7. **COLOUR BUTTONS**
Select the colour keys for interactive applications.
8. **CH-/CH+ (PAGE-/PAGE+)**
Changes the channel or page.
9. **MENU**
Displays the main menu.
10. **i (Information)**
Displays the channel and programme information.
11. **TEXT**
Switches between the teletext and TV modes.
12. **MHP**
Displays the MHP application list.

Note:

- The remote control is subject to change without notice.
- This remote control can also control your TV. To set the remote control for your TV, please refer to **10.2 Universal Remote Control**.

1. Before Using the Product



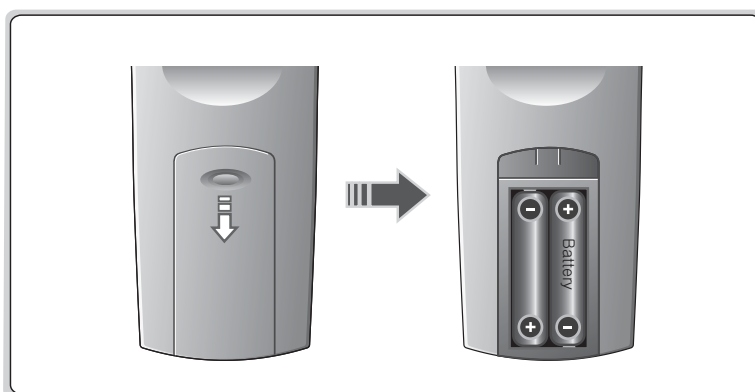
- 13. STANDBY**
Switches between operation and standby modes.
- 14. GUIDE**
Displays the standard EPG.
- 15. EXIT**
Exits all On-Screen Display (OSD) screens.
- 16. OK**
Selects a menu or confirms the selected operation.
Displays the channel list while watching a programme.
- 17. V-/V+**
Adjusts the audio volume.
- 18. MUTE**
Mutes or unmutes the audio temporarily.
- 19. LANG**
Displays the audio, subtitle list and teletext.
- 20. LIST**
Displays the channel list.
- 21. SOURCE**
Selects the input source between TV and the product.
- 22. OPT+**
Displays the channels attributes while watching a programme.

1. Before Using the Product

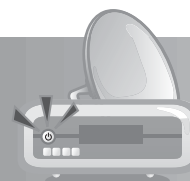


1.6 Remote Control Batteries

1. Press down the top of the battery cover and slide the cover off.
2. Insert the new batteries. Make sure the plus (+) ends meet the plus markings on the battery case.
3. Slide the cover back into place.



2. Setup

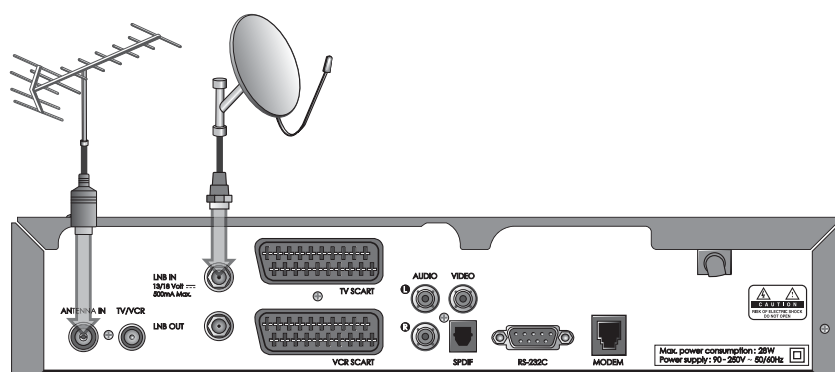


This chapter describes how to connect the product to the TV with the particular equipments for gaining optimum signal quality. The product provides various interfaces to connect to the TV, VCR or other devices. Select the most appropriate procedure depending on the equipment you have.

Note: If you encounter any problems setting up your product, please contact your local product distributor.

2.1 Connecting to the Antenna

1. Connect your aerial to the ANTENNA IN.
2. Connect the antenna to the LNB IN



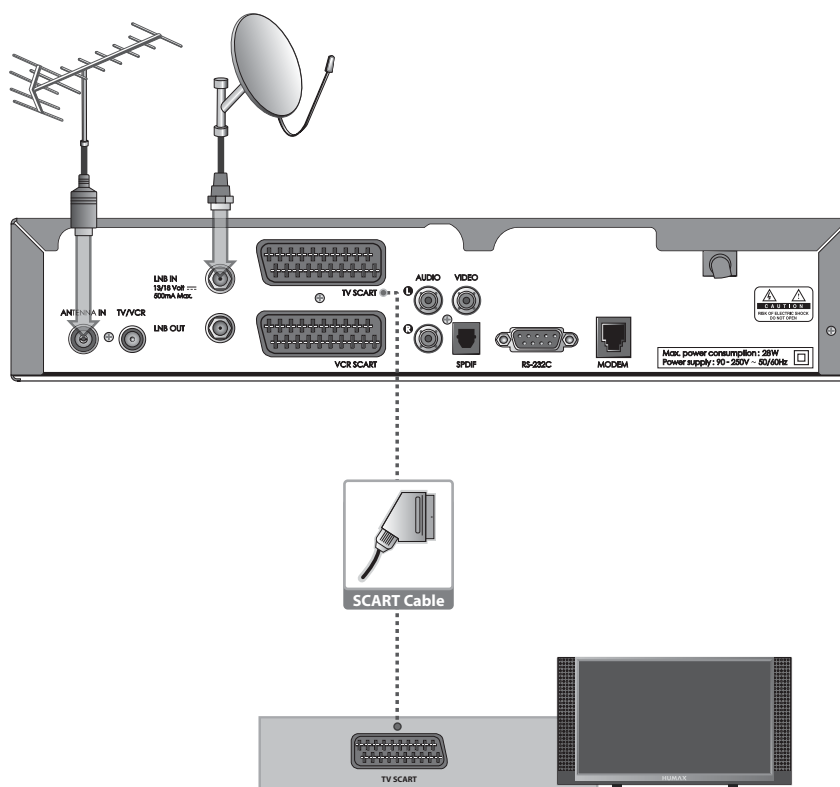
2. Setup



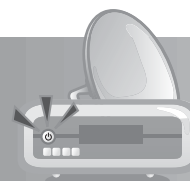
2.2 Connecting TV

1. Using SCART Cable

Connect the product and the TV using a SCART cable.

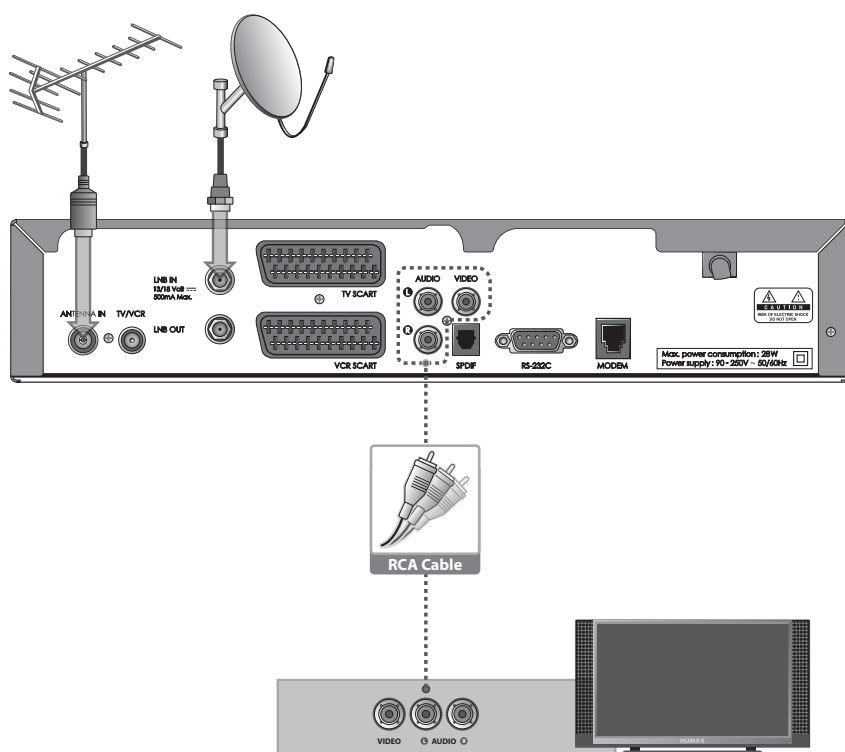


2. Setup

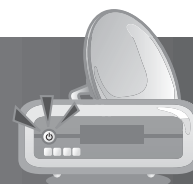


2. Using RCA Cable

Connect the product and the TV using an RCA cable.

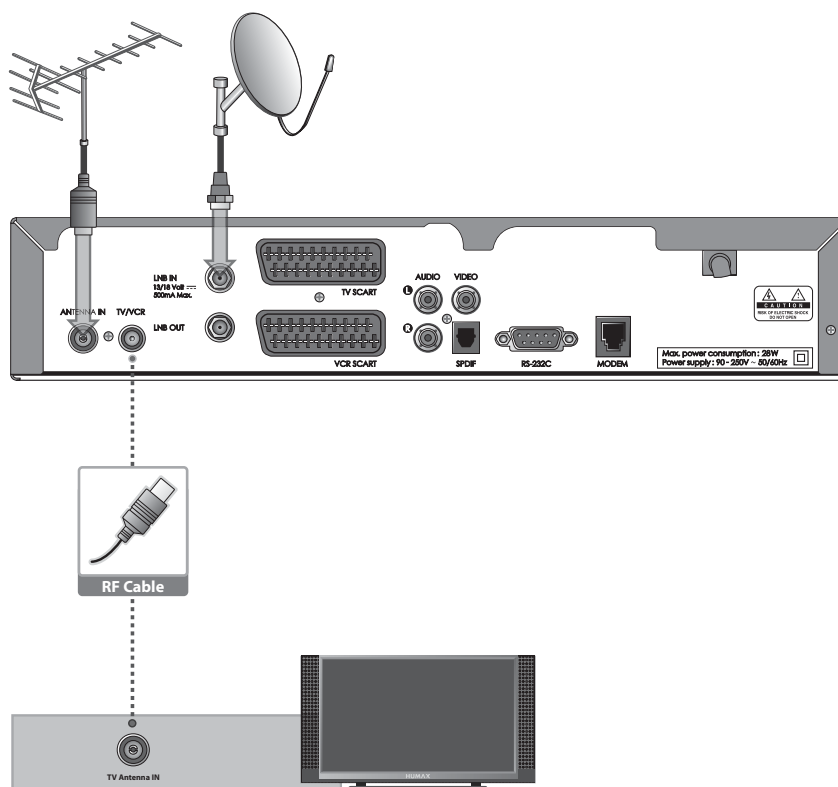


2. Setup

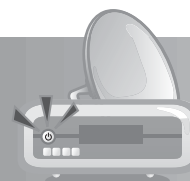


3. Using RF Cable

Connect the product and the TV using an RF cable to watch analogue terrestrial channels.



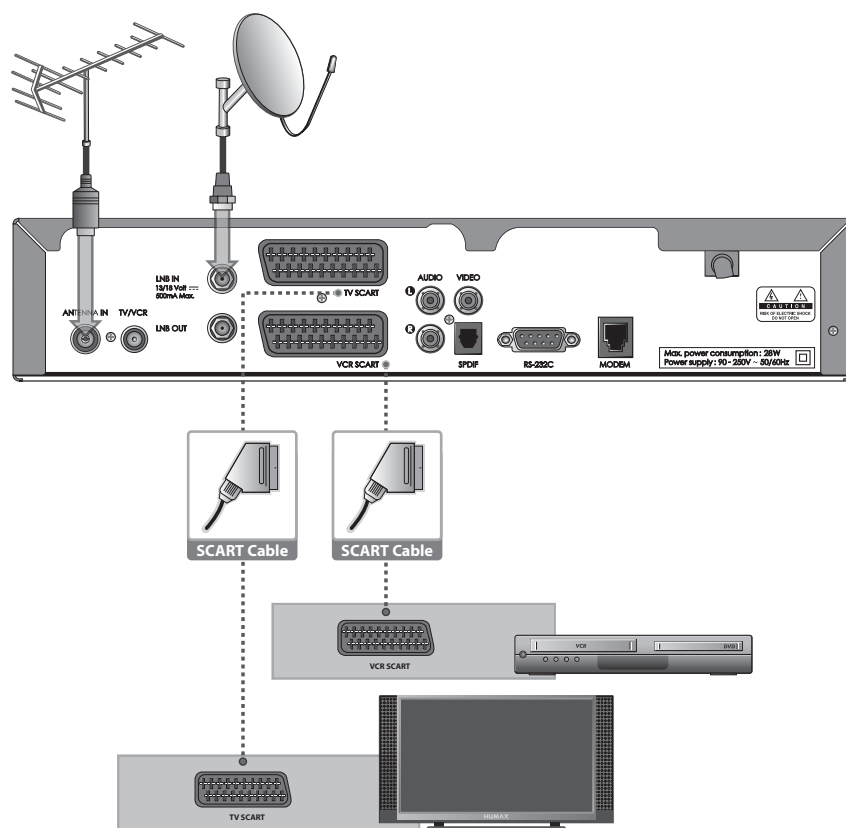
2. Setup



2.3 Connecting the TV and VCR

1. Using SCART Cable

Connect the product and the TV/VCR using a SCART cable.



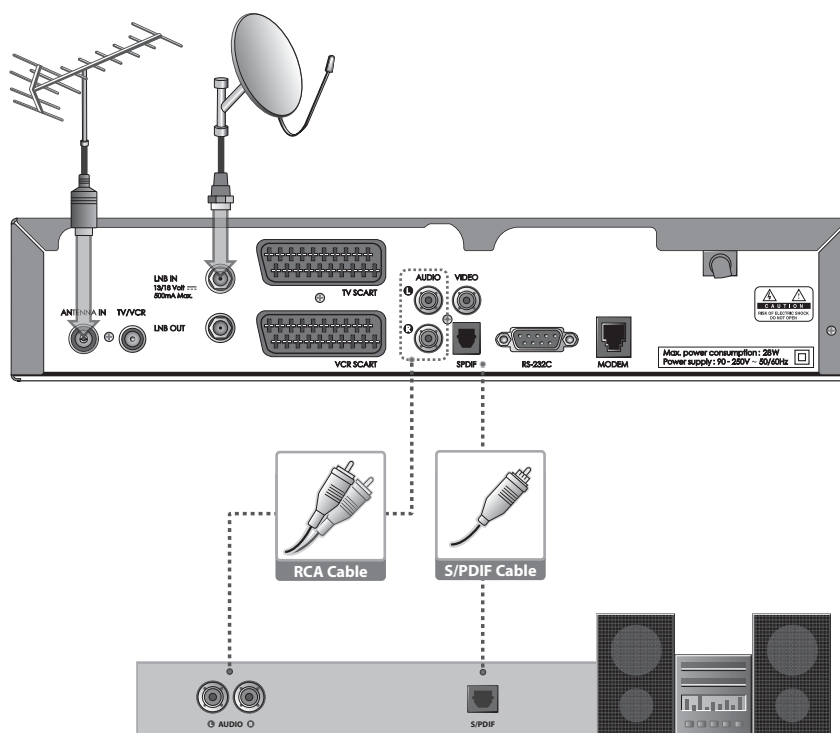
2. Setup



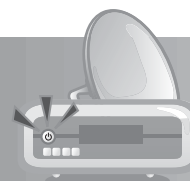
2.4 Connecting the Audio System

Select the most appropriate procedure for your convenience.

- Connect the product and the audio system using an RCA cable.
- Connect the product and the audio system for higher quality sound using an S/PDIF cable.

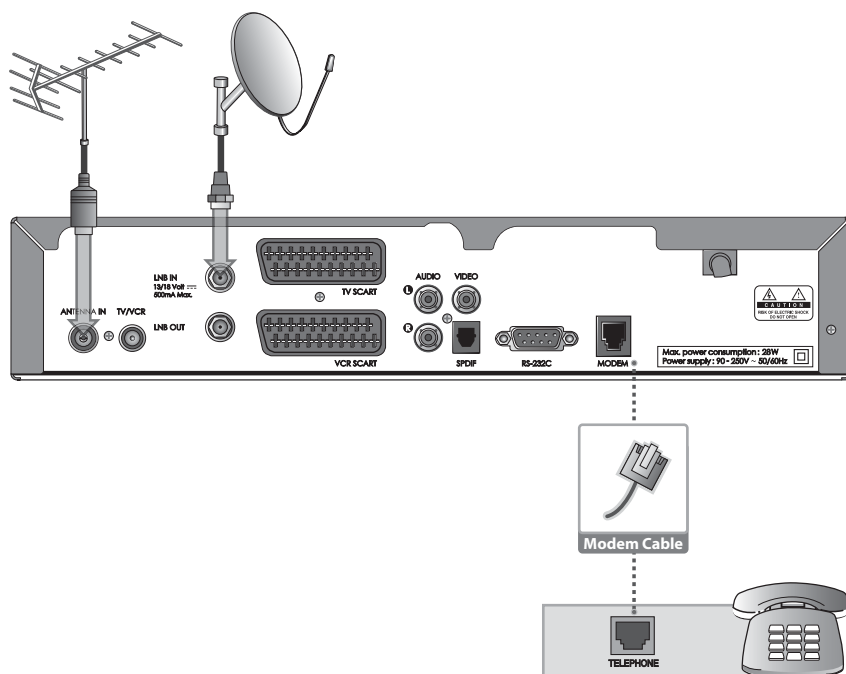


2. Setup



2.5 Connecting the Modem

Connect the product and the telephone using a telephone line.

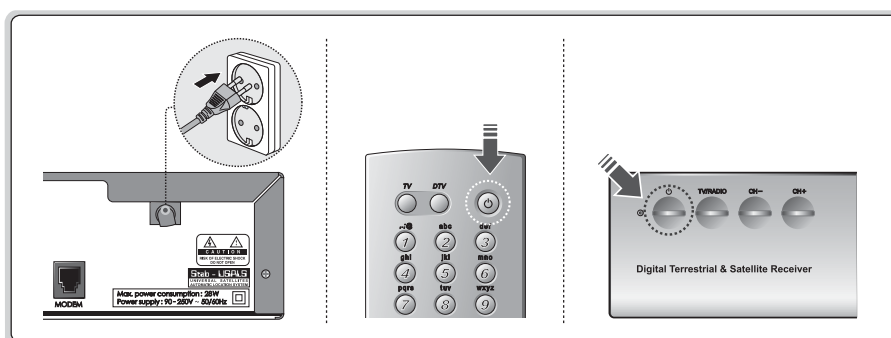


2. Setup



2.6 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Power on by pressing the **STANDBY** button of the remote control or the **STANDBY** button at the front of the product.



3. Installation Wizard



When powering on your product for the first time after purchase, the installation wizard will operate automatically.

Note: If you encounter any problems setting up your product, please contact your local product distributor.

3.1 Language

You can select the main language.

Select the appropriate language from the list using the ▲/▼ button and press the **OK** or ► button to save the selected language as a default language.



3.2 Country

You can select the country.

Select your country from the list using the ▲/▼ button and press the **OK** or ► button.



3. Installation Wizard



3.3 Terrestrial Channel Search

You can search the terrestrial channels.

1. Select **Automatic Channel Numbering** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.
Select **Next** and press the **OK** button to search the terrestrial channels
2. During the channel search, the cursor is located at **Stop**. Therefore, if you press the **OK** button during the search, the search will stop and the channels found until then will be displayed.
3. If the search does not find any channels, then press the **OK** button to access the installation menu to search for the channels again. Please make sure that you have connected your aerial correctly.
4. You can delete unwanted channels from the found channels. Select the channels to delete and press the **OK** button. Then select **Delete** and press the **OK** button. To delete all channels, select **Select All** to select all channels, select **Delete** and press the **OK** button.
5. After completing the channel search and deleting unwanted channels, select **Save** and press the **OK** button to save the changes.



3.4 Default Channel List

Select **Default Channel List** using the ▲/▼ button and press the **OK** or ► button to store the default satellite channels and move to the time setting screen.

3.5 Number of Satellite

You can select the number of satellite.

1. Select the number of satellite using the ▲/▼ button and press the **OK** or ► button.
2. Select **Skip** using ▲/▼ button and press the **OK** or ► button to skip to the next.



3. Installation Wizard



3.6 Antenna Setting

You can set the antenna and LNB information for channel search.

1. Select **Satellite** using the ▲/▼ button and press the **OK** or ► button to select an option.
2. Select **LNB Frequency** using the ▲/▼ button and press the **OK** or ► button to select an option. If the required value does not exist, select **User Define** and enter the LNB frequency directly using the **NUMERIC(0-9)** buttons.

Note: If you select **Universal**, the **22kHz Tone** value is set to **Disabled**.

3. Select **22kHz Tone/DiSEqC Input** using the ▲/▼ button and press the **OK** or ► button to select an option.



3.7 Search Type

You can select the search type.

Select **Scrambled Type/Channel Type** using the ▲/▼ button and press the **OK** or ► button to select an option.



3. Installation Wizard



3.8 Satellite Channel Search

You can search the satellite channels.

Please wait until the channel search is complete.
Satellite channel search is similar to that of the terrestrial channel search. Please refer to **3.3 Terrestrial Channel Search**.



3.9 Time Setting

You can set the GMT offset for current time and the daylight saving time.

1. Select **GMT Offset** using the ▲/▼ button and press the **OK** or ► button. Select your GMT offset using the ▲/▼ button and press the **OK** or ► button.

Note: The current time is set automatically whenever GMT offset changes.

2. Select **Daylight Saving Time** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.



3.10 Result

After all setting is complete, you can view the result screen. Select **Finish** and press the **OK** button to complete the installation wizard.



3. Installation Wizard



3.11 Installation Checklist

Before using the product, please make sure that you have completed the following steps.

Step	Page	Done?
Are the antennas connected correctly?	GB16	
Is the product connected to your TV?	GB17	
Is the power cord plugged in the wall outlet?	GB23	
Is the product in operation mode (not Standby mode)?	GB23	
Have you performed channel search in the installation wizard?	GB24	

Note: If you exit the install wizard without fully completing the channel searching procedure, you may not have all of the channels available. In this case, you can use the installation menu to search for more channels.

4. Basic Operation



4.1 Switching Channel

You can switch the current channel using one of the following methods.

1. Press the **CH-/CH+** button.
2. Enter the channel number using the **NUMERIC(0-9)** buttons to move to the channel directly.

Note:

- The channel will be switched within the most recently watched channel group. Please refer to **4.7 Channel List**.
- You can switch channels using the channel list or guide.
- To return to the previous channel, press the **BACK** button.

4.2 Volume Control

You can adjust the volume.

1. Press the **V-/V+** button to adjust the audio volume.
2. Press the **MUTE** button to stop the audio temporarily.

Note: The mute function remains set while you switch channels.



4.3 Audio/Subtitle/Teletext

1. Press the **LANG** button to display **Audio** list. Select the audio language using the **▲/▼** button. Select the audio direction (left, right, stereo) using the **◀/▶** button.



4. Basic Operation



2. Press the **LANG** button again to display **Subtitle** list. Select the required subtitle language using the **▲/▼** button and press the **OK** button. The subtitle will be displayed in the selected language at the bottom of the screen.

Note: You can select a default subtitle language. Refer to **5.2.1 Subtitle Language**.

3. Select **Teletext** using the **▲/▼** button and press the **OK** button while the subtitle list is displayed.
To display teletext menu, press the **MENU** button in teletext mode. Select the teletext function you want using the **◀/▶** button and press the **OK** button.



4.4 MHP Application

The MHP(Multimedia Home Platform) application makes it possible to access the EPG and various information. (Sports, Movie, Multiview, advertisement, etc.)

1. Press the **MHP** button.
2. Select an application you want using the **▲/▼** button and press the **OK** or **▶** button.

Note: Please refer to the detailed information of each MHP application when operating the MHP application.

4. Basic Operation



4.5 Option List

You can view and confirm detailed information about the current channel and change the information if necessary.

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

1. Press the **OPT+** button.
2. Select **Favourite** using the **▲/▼** button and press the **OK** or **►** button. Select a favourite group using the **▲/▼** button and press the **OK** button to register for favourite group.

Note: For detailed information about how to change favourite group name and how to register favourite channels from the complete channel list, please refer to **6.3 Edit Favourite Channels**.



3. Select **Lock/Unlock** using the **▲/▼** button and press the **OK** or **►** button. Select **Lock** or **Unlock** option using the **▲/▼** button and press the **OK** button.

Note: When switching to the locked channel, you must enter the password to view the channel.

4. Select **Delete** using the **▲/▼** button and press the **OK** or **►** button. Select **Yes** in the confirmation message and press the **OK** button.
5. Select **Information** using the **▲/▼** button to display the channel information automatically.

4. Basic Operation

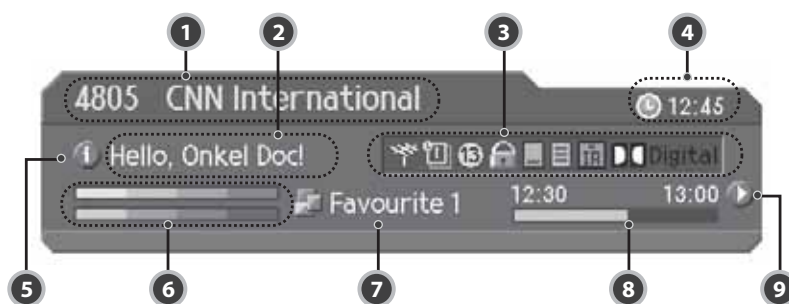


4.6 Programme Information

Programme information is always displayed for a certain period of time each time you switch channels. You can view the programme information by pressing the **i** button while watching a programme. Press the **EXIT** button to hide the i-plate.

1. General Information

The general information is displayed as the following.



1. Channel number and name
2. Programme name
3. Icons



Displayed only when the channel is a satellite or terrestrial channel.



Displayed only when there is any MHP application.



Displayed only if the programme is reserved.



Represents parental level. Indicates the minimum level of age for viewing the programme.



Displayed only when the channel is a locked channel.



Displayed only when subtitle information is available.



Displayed only when the channel is a scrambled channel.



Displayed only when there is any teletext information.



Displayed only when the programme is broadcast in Dolby Digital.

4. Basic Operation



4. Current time
5. Detailed programme information
6. Signal strength and quality
7. Current channel list icon
8. Programme broadcasting time and progress bar
9. Next programme Information

Note: If there is no programme information available, programme information is not displayed.

2. Detailed Programme Information

You can see the detailed information about the current programme. Press the **i** button where the i-plate is displayed to view detailed information.

Note:

- Press the **i** button again to hide the information box.
- If the detailed programme information is more than one page, use the **▲/▼** button to move to the previous/next page.



4. Basic Operation



4.7 Channel List

Six types of channel lists are provided for quick and easy channel search.

TV	The list of all TV channels
Radio	The list of all radio channels
Favourite	The list of favourite channels in five subgroups according to your private taste
Terrestrial	The lists of channels classified by terrestrial channels
Satellite	The lists of channels classified by satellites
Scramble	The lists of channels classified by CAS types

You can display the channel list and switch to another channel on the channel list.

1. Press the **LIST** button while watching a programme to display the channel list.
2. Select a channel using the **▲/▼** button and press the **OK** button to change the channel.
3. Enter the channel number directly using the **NUMERIC(0-9)** buttons to move the cursor to the channel you want. And then press the **OK** button to change to the selected channel.
4. Press the **►** button while the channel list is displayed to view the group list. Select a channel group using the **▲/▼** button and press the **OK** or **►** button. Select a sub-group using the **▲/▼** button and press the **OK** button. The channel list for the selected subgroup is displayed.

Note:

- You can also display the channel list by pressing the **OK** button.
- Press the **PAGE-/PAGE+** button to move to the previous/next page.
- To display scramble icon in the channel list, select **On** in **MENU→Preferences→Miscellaneous Settings→Option in CH List**.



4. Basic Operation



4.8 Guide

The programme guide displays the detailed programme information of each channel, in time and date order. You can customize your own programme guide to list the channels or programmes of interest to you and schedule your viewing using the programme information.

You can view programme information for all channels.

1. Press the **GUIDE** button.
2. Move to previous /next programme within the same channel using the ◀/▶ button.
3. Move to another channel using the ▲/▼ button. If there are more than one channel, use the **PAGE-/PAGE+** button to move to channels by page. Also, you can enter the channel number using the **NUMERIC(0-9)** buttons on the remote control to move to the channel directly.
4. Select a programme and press the **OK** button. Then you can watch the programme if it is on air or reserve it if it is the future programme.
5. Press the **i** button in the selected programme to view the detailed information (if available) of the selected programme.



1. Reserving a Programme

You can make reservations for the future programmes you wish to watch automatically.

1. Select a future programme and press the **OK** button to reserve.
2. Select **Yes** and press the **OK** button. When a reservation has been completed, the reservation icon is displayed on the reserved programme.
3. Press the **OK** button again to cancel the reservation. Select **Yes** and press the **OK** button.

2. Selecting Channel Group

You can view programme information of the selected channel list by groups.

1. Press the **RED** button to display the channel group list.
2. Select a channel group using the ▲/▼ button.
3. Press the ▶ button to move the cursor to the sub group.
4. Select a sub group using the ▲/▼ button and press the **OK** button.



4. Basic Operation



3. Using Time Bar

You can quickly search the time zone using the time bar.

1. Press the **GREEN** button to display the time bar.
2. Select the each button using the ◀/▶ button and press the **OK** button to move the time bar.
If you press the button repeatedly, the same operation is repeated.
3. Each button functions as follows.



Exits the time bar.

Now

Moves to the current programme where the cursor is located.



Moves back to the previous programme or 30 minutes before.



Move forwards to the next programme or 30 minutes ahead.



Moves back to 2 hours before.



Moves forwards to 2 hours ahead.



Moves back to one day before.



Moves forwards to one day ahead.



4. Schedule

You can add and edit the reserved programme using the schedule list. Press the **YELLOW** button to display the schedule list.

Adding a Reservation

1. Select a blank space using the ▲/▼ button and press the **OK** button to add a new reservation.
2. Select **Channel No.** using the ▲/▼ button and press the **NUMERIC(0-9)** buttons to enter the channel.
3. Select **Start/End Time** using the ▲/▼ button and press the **NUMERIC(0-9)** buttons to change the time.
4. Select **Repeat** using the ▲/▼ button and press the ◀/▶ button to change the repeat frequency.
5. Select **Save** and press the **OK** button to save the changes.



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Note:

- If the channel is locked, you will be prompted to enter the password to complete the reservation.
- If the reserved programme is overlapped with other programme, adjust the reservation appropriately.

Editing a Reserved Programme

1. Select a programme you want to edit using the ▲/▼ button and press the **OK** button.
2. Select **Delete** using the ◀/▶ button and press the **OK** button to delete the reserved programme. A pop-up will appear. Select **OK** and press the **OK** button.
3. Select **Edit** using the ◀/▶ button and press the **OK** button to edit the reserved programme. For more information about how to edit the information, refer to **Adding a Reservation**.

5. Finding Programmes

You can find the programme you want by entering the name and genre of the programme.

1. Press the **BLUE** button to display the keyboard.
2. Enter the programme name on the keyboard screen.
3. Select **Previous/Next** and press the **OK** button to switch the keyboard layout.
4. Select **Find** and press the **OK** button.
5. Select a programme and press the **OK** button to watch or reserve it.

Note: If you want to find the programme by genre, select **By Genre** and press the **OK** button. Select the genre and press the **OK** button to find.



4.9 MyEPG

MyEPG is a TV guide supported by MHP application.

You can view the detailed programme information of each channel and find programmes you want.

Press the **MyEPG** button.



4. Basic Operation



4.10 MEDIASET Premium PPV (MEDIASET Smartcard Users Only)

You can use Mediaset Premium PPV services only when you tune to a Mediaset Pay TV channel. You can purchase a programme when you have the authority to buy it.

1. Switch to the Mediaset PPV channels using the **CH-/CH+** button. When you are allowed to buy a PPV programme, a banner pops up. The banner provides general information on the programme that can be purchased. Press the **GREEN** button to view a brief description of the programme.
2. Press the **OK** button to choose it. The purchase confirmation screen will appear. The screen informs you on the ongoing purchasing programme. Press the **BLUE** button to view the terms and conditions of purchase.
3. Press the **OK** button to confirm the selection. A confirmation message will appear.

Note:

- When you cannot purchase a PPV programme, make sure the Mediaset Premium Smartcard is inserted into the product.
- When you change channels and then come back to the previous one where you have purchased the PPV programme, the native i-plate will be shown.



5. Preferences



5.1 Parental Control

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Parental Control** using the **▲/▼** button and press the **OK** or **►** button.



1. Censorship Classification

Censorship Classification allows you to block programmes according to the age level you have set.

1. Select **Censorship Classification** using the **▲/▼** button and press the **OK** or **►** button.
2. Select the age level using the **▲/▼** button and press the **OK** button.

Note: You have to enter the password to watch the programme which is blocked by the age level.



2. Change Password

You can change the current password.

1. Select **Change Password** using the **▲/▼** button and press the **OK** or **►** button.
2. Enter **New Password** using the **NUMERIC(0-9)** buttons and press the **OK** button.
3. Enter the new password again to confirm **Verify Password** and press the **OK** button.

5. Preferences



5.2 Language Setting

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Language Setting** using the **▲/▼** button and press the **OK** or **►** button.



1. Menu/Audio/Subtitle Language

1. Select **Menu/Audio/Subtitle Language** using the **▲/▼** button and press the **OK** or **►** button.
2. Select the language using the **▲/▼** button and press the **OK** or **►** button.

2. Subtitle Display

1. Select **Subtitle Display** using the **▲/▼** button.
2. Select from **Auto** and **Manual** using the **OK** or **►** button.

Auto	Subtitles are displayed automatically in the predefined subtitle language.
Manual	Subtitles are displayed in the language when you select the subtitle language.

3. Subtitle Font

You can select the subtitle font.

1. Select **Subtitle Font** using the **▲/▼** button.
2. Select from **Variable** and **Fixed** using the **OK** or **►** button.

Variable	Uses the horizontally variable subtitle font.
Fixed	Uses the fixed subtitle font.

5. Preferences



5.3 Time Setting

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Time Setting** using the **▲/▼** button and press the **OK** or **►** button.



1. GMT Offset

You can set the GMT offset for current time.

1. Select **GMT Offset** using the **▲/▼** button and press the **OK** or **►** button.
2. Select your GMT offset using the **▲/▼** button and press the **OK** or **►** button.

Note:

- The current time is set automatically whenever GMT offset changes.
- When **GMT Offset** is set to **Auto**, you have to tune the terrestrial channel for a certain period of time to set the time automatically.

2. Daylight Saving Time

You can turn on/off the daylight- saving time. Select **Daylight Saving Time** using the **▲/▼** button and press the **OK** or **►** button to select **Enable/Disable**.

3. Power ON/OFF

You can set the time you want the product to be automatically turned on/off.

1. Select **Power ON/OFF** using the **▲/▼** button.
2. Press the **OK** or **►** button to select **Enable/Disable**.
3. When you select **Enable**, enter the **Channel No.** or **Time** using the **NUMERIC(0-9)** buttons, select **OK** and press the **OK** button.

Note: Once Power On/Off has been set, it is repeated everyday.

5. Preferences



5.4 Schedule

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Schedule** using the **▲/▼** button and press the **OK** or **►** button.

Note: For more information about **Schedule**, refer to **4.8.4 Schedule**.



5.5 A/V Control

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **A/V Control** using the **▲/▼** button and press the **OK** or **►** button.



1. TV-SCART

1. Select **TV-SCART** using the **▲/▼** button and press the **OK** or **►** button.
2. Select an option among **CVBS**, **RGB** and **S-Video** using the **▲/▼** button and press the **OK** or **►** button.

2. VCR-SCART

Select **VCR-SCART** using the **▲/▼** button and press the **OK** or **►** button to select from **CVBS** and **S-Video**.

5. Preferences



3. Audio Output

Select **Audio Output** using the ▲/▼ button and press the **OK** or ► button to select from **Stereo** and **Mono**.

4. Dolby Digital Output

Select **Dolby Digital Output** using the ▲/▼ button and press the **OK** or ► button to select **On/Off**.

4. Dolby Digital Output

Select **Dolby Digital Output** using the ▲/▼ button and press the **OK** or ► button to select **On/Off**.

5. Screen Ratio

You can set the aspect ratio of your TV.

1. Select **Screen Ratio** using the ▲/▼ button.
2. Select from **4:3** and **16:9** using the **OK** or ► button.

6. Display Format

You can select the display format according to the TV screen ratio.

1. Select **Display Format** using the ▲/▼ button and press the **OK** or ► button.
2. If the screen ratio is set to **4:3**, you can select an option among **Auto**, **Letter Box** and **Center Mode** using the ▲/▼ button and press the **OK** button.
3. If the screen ratio is set to **16:9**, you can select an option among **Auto**, **Pillar Box** and **Full Mode** using the ▲/▼ button and press the **OK** button.

5. Preferences



5.6 Miscellaneous Settings

1. Press the **MENU** button.
2. Select **Preferences** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Miscellaneous Settings** using the **▲/▼** button and press the **OK** or **►** button.



1. i Display Time

You can set the automatic display time of the information box when the channel is switched.

1. Select **i Display Time** using the **▲/▼** button and press the **OK** or **►** button.
2. Select a value between **1~20** seconds using the **▲/▼** button and press the **OK** or **►** button.

Note: When it is set to **Disable**, the i-plate will not be displayed when the channel is switched.

2. OSD Transparency

You can set the transparency of On Screen Display (OSD).

1. Select **OSD Transparency** using the **▲/▼** button and press the **OK** or **►** button.
2. Select an option among **Disable**, **25**, **50** and **75** using the **▲/▼** button and press the **OK** or **►** button.

Auto	Subtitles are displayed automatically in the predefined subtitle language.
Manual	Subtitles are displayed in the language when you select the subtitle language.

3. Option in CH List

You can set whether or not the scramble icon is displayed.

1. Select **Option in CH List** using the **▲/▼** button.
2. Press the **OK** or **►** button to select **On/Off**.

5. Preferences



4. MyEPG

You can set whether or not to use the MyEPG.

1. Select **MyEPG** using the ▲/▼ button.
2. Press the **OK** or ► button to select **On/Off**.

Note:

- **MyEPG** will be automatically updated in the standby mode when **MyEPG** is set to **On**.
- The product is automatically powered off and on again whenever **MyEPG** setting changes.

5.7 MHP Settings

1. Press the **MENU** button.
2. Select **Preferences** using the ▲/▼ button and press the **OK** or ► button.
3. Select **MHP Settings** using the ▲/▼ button and press the **OK** or ► button.



1. i Display by MHP App.

1. Select **i Display by MHP App.** using the ▲/▼ button.
2. Press the **OK** or ► button to select **Enable/Disable**.

2. Show MHP logo

1. Select **Show MHP logo** using the ▲/▼ button.
2. Press the **OK** or ► button to select **Enable/Disable**.

6. Edit Channels



6.1 Edit Terrestrial Channel Lists

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

You can edit the terrestrial channels.

1. Press the **MENU** button.
2. Select **Edit Channels** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Edit Terrestrial Channel Lists** using the **▲/▼** button and press the **OK** or **►** button.
4. Press the **OK** or **►** button in **Group** to select the group of channel list. Select the group using the **▲/▼** button and press the **OK** button.
5. Select a channel using the **▲/▼** button and press the **OK** button. Select **Renumber** using the **▲/▼** button and press the **OK** button. Press the **NUMERIC(0-9)** buttons to enter the channel number.
6. Select a channel using the **▲/▼** button and press the **OK** button. You can select more than one channel. Select **Move** using the **▲/▼** button and press the **OK** button. Move the cursor to the destination using the **▲/▼** button and press the **OK** button.
7. Select a channel using the **▲/▼** button and press the **OK** button. You can select one channel at a time. Select **Rename** using the **▲/▼** button and press the **OK** button. Enter a channel name directly using the keyboard displayed on the screen. When entering channel name is complete, select **OK** and press the **OK** button. .
8. Select a channel using the **▲/▼** button and press the **OK** button. You can select more than one channel. Select **Delete/Lock** using the **▲/▼** button and press the **OK** button.
9. Select **Select All/Unselect All** using the **▲/▼** button and press the **OK** button to select/unselect all channels.



Note:

- When the locked channel(s) is selected or all channels are locked, **Lock** is switched to **Unlock**. When you select **Unlock** and press the **OK** button, locked channel is switched to an unlocked channel.
- Select **Trash** in **Group** to restore the deleted channels.

6. Edit Channels



6.2 Edit Satellite Channel Lists

You can edit the satellite channels.

1. Press the **MENU** button.
2. Select **Edit Channels** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Edit Satellite Channel Lists** using the ▲/▼ button and press the **OK** or ► button.

Note: For more information about how to edit the satellite channels, refer to **6.1 Edit Terrestrial Channel Lists**.



6.3 Edit Favourite Channels

You can edit the favourite channels.

1. Press the **MENU** button.
2. Select **Edit Channels** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Edit Favourite Channels** using the ▲/▼ button and press the **OK** or ► button.
4. You will be prompted to select a favourite group. Select a favourite group to edit using the ▲/▼ button and press the **OK** button.



The icons for editing the favourite channel list are described in the following table.

	Add	Adds to the favourite group.
	Remove	Removes from the favourite group.
	Channel Group	Selects a channel group.
	Fav.Group	Changes the favourite group.
	Move	Changes the order of channels within the favourite group.
	Rename	Renames the name of favourite group.
	Sort	Sorts channels by number or name in all TV/radio channel list.
	Unselect All	Unselects all selected channels.

6. Edit Channels



6.4 Automatic Channel Numbering

You can set whether or not the channels are numbered automatically by broadcaster.

1. Press the **MENU** button.
2. Select **Edit Channels** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Automatic Channel Numbering** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.

Note:

- When changing from **Enable** to **Disable** or vice versa, the terrestrial channels will be searched again and the product will reboot automatically.
- When **Automatic Channel Numbering** is set to **Disable**, **Edit Terrestrial Channel Lists** menu and **Edit Satellite Channel Lists** menu turn into a single menu; **Edit Channel Lists**.

6.5 Renew Channel Numbers

You can renew the channel numbers you edit.

1. Press the **MENU** button.
2. Select **Edit Channels** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Renew Channel Numbers** using the ▲/▼ button and press the **OK** or ► button.
4. Select **OK** and press the **OK** button to renew the channel number you edit.

6.6 Import/Export Channels

You can transfer and edit the channel data and menu by connecting the PC to the receiver.

1. Download the **Uniformula** programme for this product into your computer (<http://www.humaxdigital.com>) and install the **Uniformula**.
2. Connect your product and PC using the RS-232C cable.
3. Press the **MENU** button.
4. Select **Edit Channels** using the ▲/▼ button and press the **OK** or ► button.
5. Select **Import/Export Channels** using the ▲/▼ button and press the **OK** or ► button.
6. Select **Download Channels from PC/Upload Channels to PC** using the ▲/▼ button and press the **OK** or ► button.



Note: For more information about how to use the **Uniformula**, refer to the **Help>Contents** menu in the **Uniformula**.

7. Installation



7.1 Terrestrial Channel Search

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

You can search the terrestrial channels.

1. Press the **MENU** button.
2. Select **Installation** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Terrestrial Channel Search** using the **▲/▼** button and press the **OK** or **►** button.



1. Automatic Search

If your product is connected to the aerial and television, you can automatically search channels without entering any other information.

1. Select **Automatic Search** using the **▲/▼** button and press the **OK** or **►** button.
2. Wait while channel search continues. This may take a few minutes.
3. While operating search, the cursor is located at **Stop**. Therefore, if you press the **OK** button during searching, the operation is stopped and the channels found until then will be displayed.
4. If search operation is successfully completed and the channel does not exist, press the **OK** button and try to reset the search operation again if necessary.
5. You can delete unnecessary channels from the searched channels. Select the channels to delete and press the **OK** button. Then select **Delete** and press the **OK** button. To delete all channels, select **Select All** to select all channels, select **Delete** and press the **OK** button.
6. When completing channel search and deleting unnecessary channels, select **Save** and press the **OK** button to save the changes.



7. Installation



2. Manual Search

You can search channels manually by searching parameters, using the MUX information.

1. Select **Manual Search** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Channel** using the ▲/▼ button and press the **OK** or ► button. Select one of channels using the ▲/▼ button and press the **OK** button. When entering channel value, the appropriate frequency value is displayed.
3. Select **Frequency** using the ▲/▼ button and press the **OK** or ► button. Enter the frequency using the **NUMERIC(0-9)** buttons and press the **OK** button. When entering frequency, the appropriate channel for the entered frequency is automatically displayed on channel.
4. Select **Band Width** using the ▲/▼ button and press the **OK** or ► button to select from **7** and **8MHz**.
5. Select **Network Search** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.
6. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.



3. Antenna Power

Make sure to set the **Antenna Power** to **On** when you connect an active antenna to the **ANTENNA IN** connector on the rear of the product. Select **Antenna Power** using the ▲/▼ button and press the **OK** or ► button to select **On/Off**.

Antenna Power On

In case you are using an active antenna that has its power supplied by the aerial, the antenna power should be set to **On**.

- **Active antenna**
Power supply from external power adaptor is not necessary. (ex. Indoor Antenna)

Antenna Power Off

In case you are using a passive antenna or an active antenna with its own power source, the antenna power should be set to **Off**. (The default value is **Off**.)

Caution: Be sure to turn off the antenna power when using an active antenna with its own power source. Damage may occur to the antenna if left on.

7. Installation



4. Invisible Channel Search

Select **Invisible Channel Search** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.

Note: If you set **Invisible Channel Search** to **Enable**, search channel again to view the invisible channels.

7.2 Satellite Channel Search

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

You can search the satellite channels.

1. Press the **MENU** button.
2. Select **Installation** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Satellite Channel Search** using the ▲/▼ button and press the **OK** or ► button.



1. Antenna Setting (Fixed Antenna)

You can set the antenna and LNB information for channel search. If the antenna is not properly set, channel search cannot be activated which means you cannot watch any of the programmes on air.

1. Select **Antenna Setting** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Satellite** using the ▲/▼ button and press the **OK** or ► button. Select the satellite the antenna is pointing to using the ▲/▼ button and press the **OK** or ► button. If the required satellite is not available in the list, select **User Define**.
3. Select **Satellite Alternative** using the ▲/▼ button and press the **OK** or ► button to add the satellite you set. If there is no satellite that the satellite alternative is set to **Enable**, channel search is not available.



7. Installation



4. Select **LNB Frequency** using the ▲/▼ button and press the **OK** or ► button to select an option. If the required value does not exist, select **User Define** and enter the LNB frequency directly using the **NUMERIC(0-9)** buttons.

Note: If you select **Universal**, the **22kHz Tone** value is set to **Disable**.

5. Select **22kHz Tone** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.

Enable	Dual LNB is used or two antennas are connected to the 22KHz tone switch box.
Disable	22KHz is not in use.

6. Select **DiSEqC Input** using the ▲/▼ button and press the **OK** or ► button to select an option.
7. Select **SCD Setting** using the ▲/▼ button and press the **OK** or ► button. Select **Single Cable System** using the ▲/▼ button and press the **OK** or ► button to select a user band you want to use. Select **Band Frequency** using the ▲/▼ button and press the **OK** or ► button to select an option. If the required value does not exist, select **User Define** and enter the band frequency directly using the **NUMERIC(0-9)** button.
8. Select **Satellite Position** using the ▲/▼ button and press the **OK** or ► button to select an option.

Note: When only the satellite antenna you have supports the single cable system, set the single cable system and band frequency. For more information about the single cable system, refer to the satellite antenna manual.

7. Installation



2. Antenna Setting (Motor Antenna)

When using a motor antenna, press the **OPT+** button in antenna setting menu.

Motor Type

1. Select **Motor Type** using the **▲/▼** button and press the **OK** or **▶** button.
2. Select **LNB Frequency** using the **▲/▼** button and press the **OK** or **▶** button to select an option. If the required value does not exist, select **User Define** and enter the LNB frequency directly using the **NUMERIC(0-9)** buttons.
3. Select **Motor Kind** using the **▲/▼** button and press the **OK** or **▶** button to select an option.

DiSEqC1.2	General motor antenna using DiSEqC1.2
USALS	Motor antenna using USALS



Note: When **Motor Kind** is set as **DiSEqC 1.2**, both **My Longitude** and **My Latitude** are set to **Disabled**.

4. Select **My Longitude** using the **▲/▼** button and press the **OK** or **▶** button. Enter my longitude value using the **NUMERIC(0-9)** buttons. Select from **East/West** using the **◀/▶** button and press the **OK** button to complete.
5. Select **My Latitude** using the **▲/▼** button and press the **OK** or **▶** button. Enter my latitude value using the **NUMERIC(0-9)** buttons. Select from **North/South** using the **◀/▶** button and press the **OK** button to complete.

Edit Satellite Data

1. Select **Edit Satellite Data** using the **▲/▼** button and press the **OK** or **▶** button.
2. Select **Satellite** using the **▲/▼** button and press the **OK** or **▶** button. Select a satellite to edit using the **OK** or **▶** button.
3. Select **Satellite Alternative** using the **▲/▼** button and press the **OK** or **▶** button to add the satellite you set.
4. Select **Satellite Longitude** using the **▲/▼** button and press the **OK** or **▶** button. Enter my longitude value using the **NUMERIC(0-9)** buttons. Select from **East/West** using the **◀/▶** button and press the **OK** button to complete.
5. Select **Save** using the **▲/▼** button and press the **OK** button.



Note: **Satellite Longitude** is editable for **User Define Satellite** only.

7. Installation



Motor Setting

1. Select **Motor Setting** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Satellite** using the ▲/▼ button and press the **OK** or ► button. Select the satellite the antenna is pointing to from the options using the ▲/▼ button and press the **OK** or ► button.
3. Select **Transponder** using the ▲/▼ button and press the **OK** or ► button. Select an option for transponder using the ▲/▼ button and press the **OK** or ► button. To add another transponder, select **User Define** from the list. Add transponder screen will appear. Enter the values for **Frequency**, **Polarization**, **Symbol Rate** and **FEC**. Select **Done** and press the **OK** button to complete.
4. Select **Driving Mode** using the ▲/▼ button and press the **OK** or ► button to select an option. When motor driving is set as **Step** or **Time**, a pop up will appear to set the driving size. Select the driving size using the ◀/▶ button. Select **OK** and press the **OK** button.



Continuous	Motor moves continuously.
Step	Motor moves by specified unit.
Time	Motor moves during specified time.

5. Select **Go to Stored Position** using the ▲/▼ button and press the ◀/▶ button to move the antenna to the position of the selected satellite. Wait till the antenna moves to the position of the satellite. Confirm signal strength and quality level and fine-tune the antenna direction.
6. Select **Store Current Position** using the ▲/▼ button and press the **OK** button to save the adjusted position of the satellite. The position of the antenna headed for the certain satellite will be saved.

Note: You can set the antenna position by repeating the procedure above.

7. Select **Recalculate** using the ▲/▼ button and press the **OK** button to recalculate the position of all satellites based on one satellite. Adjust the antenna position of a certain satellite. To readjust all positions, select **OK** and press the **OK** button.

Note: When **Motor Kind** is set as **USALS**, **Driving Mode**, **Store Current Position**, **Recalculate** is set to **Disabled**.

7. Installation



Installer Menu

1. Select **Installer Menu** using the ▲/▼ button and press the **OK** or ► button to set default setting and operation limit for motor antenna.
2. Select **Motor Limit** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**. To save the present location, change the **Motor Limit** to **Enable**.

Enable	Motor limit is set. motor does not exceed the limit.
Disable	Setting is released.



Note:

- When **Motor Limit** is set to **Enable**, **Limit Position** and **Set Limits** are set to **Disabled**.
 - When setting new motor limit, set to **Disable**.
3. Select **Limit Position** using the ▲/▼ button and press the **OK** or ► button to select **East/West**.
 4. Select **Set Limit** using the ▲/▼ button and press the ◀/▶ button to move the antenna to the limit position.

Note: When limit is set, **Motor Limit** is automatically set to **Enable**.

5. Select **Reset Positions** using the ▲/▼ button and press the **OK** button to restore the position saved at motor antenna to the factory default. A pop-up will appear. Select **OK** and press the **OK** button. Please wait while the motor antenna is restored.

Note: Reset may not be activated depending on the condition of the antenna. Repeat the procedure above if necessary.

7. Installation



3. Automatic Search

If the product is connected to the antenna and TV, you can automatically search satellites and channels without entering any other information.

1. Select **Automatic Search** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Satellite** using the ▲/▼ button and press the **OK** or ► button to select the satellite.
3. Select **Search Type** using the ▲/▼ button and press the **OK** or ► button. Select an option among **All**, **FTA** and **CAS** and press the **OK** or ► button.

All	Searches all channels.
FTA	Searches only free channels.
CAS	Searches channels for selected CAS.



4. Select **Channel Type** using the ▲/▼ button and press the **OK** or ► button. Select an option among **All**, **TV** and **Radio** and press the **OK** or ► button.
5. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate. Select **Select All/ Unselect All** using the ▲/▼ button and press the **OK** button to select/unselect all channels. Select a channel using the ▲/▼ button and press the **OK** button. Select **Delete** and press the **OK** button. To save search results, select **Save** and press the **OK** button.

Note:

- When you select **Stop** during channel search, the search will be discontinued and the accumulated search results will show.
- If there are no channels available, a message indicating the result will pop up.

7. Installation



4. Manual Search

1. Select **Manual Search** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Satellite** using the ▲/▼ button and press the **OK** or ► button to select the satellite.
3. Select **Transponder** using the ▲/▼ button and press the **OK** or ► button. Select a transponder using the ▲/▼ button and press the **OK** or ► button. To add another transponder, select **User Define** from the list. Add transponder screen will appear. Enter the values for **Frequency**, **Polarization**, **Symbol Rate** and **FEC**. Select **Done** and press the **OK** button to complete.
4. Select **Network Search** using the ▲/▼ button and press the **OK** or ► button to select **Enable/Disable**.
5. Select **Search Type** using the ▲/▼ button and press the **OK** or ► button. Select an option among **All**, **FTA** and **CAS** and press the **OK** or ► button.
6. Select **Channel Type** using the ▲/▼ button and press the **OK** or ► button. Select an option among **All**, **TV** and **Radio** and press the **OK** or ► button.
7. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.



5. Other Search

1. Select **Other Search** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Advanced Search** using the ▲/▼ button and press the **OK** or ► button. Enter the values for **Satellite**, **Transponder**, **Video PID**, **Audio PID** and **PCR PID**. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.
3. Select **SMATV Search** using the ▲/▼ button and press the **OK** or ► button. Enter the values for **Frequency**, **Polarization**, **Symbol Rate** and **FEC**. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.
4. Select **Multiple Manual Search** using the ▲/▼ button and press the **OK** or ► button. Enter the values for **Satellite**, **Edit TP List**, **Search Type** and **Channel Type**. Select **Search** using the ▲/▼ button and press the **OK** button. Channel search will activate.



Note: You can edit transponders in the **Edit TP List**.

7. Installation



7.3 Software Update

In order to maintain proper performance of the product, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions.

– <http://www.humaxdigital.com>.

It is recommended that you periodically check for the availability of software update.

1. Press the **MENU** button.
2. Select **Installation** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Software Update** using the ▲/▼ button and press the **OK** or ► button.



1. OTA (Over The Air)

OTA, an abbreviation of **Over-the-Air**, is a standard for the transmission of software through a broadcast system. OTA is simply an alternative method for downloading software versions. However, the manufacturers reserve the right for deciding the release of the software for their products by beaming the latest version of software over the air via aerial. The software update via aerial will only occur under the following circumstances.

1. The equipment should have the appropriate loader software.

Caution: Please note that if the normal loader software is not equipped, the product may not be updated or operate properly after software update.

2. The manufacturer decides to release the software via a designated channel.
3. The equipment must be tuned properly to the same aerial equivalent to that of the manufacturer.
4. Update software when the signal strength and quality is high. If the signal strength and quality are not recommendable, perform the software update later.

Caution:

- Please be careful to keep the power on and the power cord plugged in during software update. If the power is off during software update, fatal damage may be caused to the product.
- Please be careful not to pull out the signal line (co-axial cable) during software update. Update may be interrupted and the product may not operate.

7. Installation



Note:

- It may take 5~10 minutes to update software.
- Other functions will not activate while software update takes place.
- You cannot schedule programmes during software update.

2. Automatic Update

You can set the product to find HUMAX software update site and update software automatically.

1. Select **Automatic Update** using the ▲/▼ button and press the **OK** or ► button.
2. Automatically search for new software. Select **Cancel** and press the **OK** button to finish search.
3. When detecting software update, the following result is displayed. If new software is not found by automatic update, use manual update.
4. Select **Yes** and press the **OK** button to start updating. Select **No** and press the **OK** button to return to the previous menu without updating.
5. When completing the software update, the product is automatically powered off and on again.

3. Manual Update

You can perform manual update using know MUX information.

1. Select **Manual Update** using the ▲/▼ button and press the **OK** or ► button.
2. Select **Channel** using the ▲/▼ button and press the **OK** or ► button. Select the channel number using the ▲/▼ button and press the **OK** or ► button.
3. Select **Frequency** using the ▲/▼ button and press the **OK** or ► button. Enter the frequency using the **NUMERIC(0-9)** buttons.
4. Select **Search** and press the **OK** button to search software. Existing new software will show. If new software does not exist, press the **OK** button to return to the manual update menu.
5. Select **Yes** and press the **OK** button to start updating. Select **No** and press the **OK** button to return to the previous menu. Performs software update. Please wait until it is completed.
6. When completing the software update, the product is automatically powered off and on again.

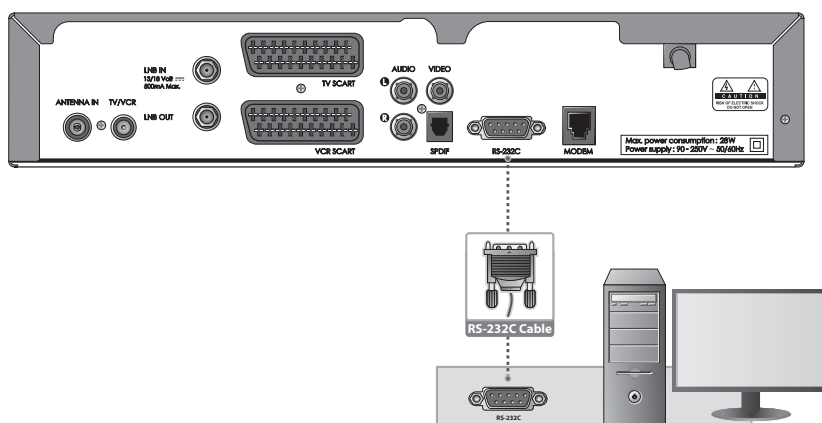
7. Installation



4. Software Update from PC

You can connect the product to your PC and update the software directly by transferring the latest software from the PC. Follow the steps below to download the latest software over the internet.

1. Download the latest software from the website (<http://www.humaxdigital.com>).
2. Download and install the download tool.
3. Connect your PC to the product with an RS-232C serial cable.
4. Execute the installed download tool and follow the instructions provided.
5. Power On/Off to start operating.



7. Installation



7.4 Regular Auto Update

You can update the channel and software and specify the update option.

1. Press the **MENU** button.
2. Select **Installation** using the **▲/▼** button and press the **OK** or **▶** button.
3. Select **Regular Auto Update** using the **▲/▼** button and press the **OK** or **▶** button.
4. Select **Update Target** using the **▲/▼** button and press the **OK** or **▶** button. Select an option from the list using the **▲/▼** button and press the **OK** or **▶** button.
5. Select **Auto Search in Standby/Operate** using the **▲/▼** button and press the **OK** or **▶** button to select **Enable/Disable**.
6. Select **Search Time** using the **▲/▼** button and press the **OK** or **▶** button. When selecting **Enable**, set **Search Time** using the **NUMERIC(0-9)** buttons and select **OK** and press the **OK** button.
7. Select **Frequency** using the **▲/▼** button and press the **OK** or **▶** button to select from **Daily** and **Weekly**.



7. Installation



7.5 Default Setting

Tip:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

Default Setting enables you to restore the product to the factory default.

Warning: Please note that once you perform **Default Setting**, all data such as antenna setting information, channel list, and all user configured data will be deleted.

1. Press the **MENU** button.
2. Select **Installation** using the **▲/▼** button and press the **OK** or **►** button.
3. Select **Default Setting** using the **▲/▼** button and press the **OK** or **►** button.
4. Select **Yes** and press the **OK** button to restore all setting to factory default. To return to the previous menu, select **No** and press the **OK** or **EXIT** button.
5. You will be prompted to enter your password again before starting to load default setting. Enter the password to proceed.
6. When default setting is completed, installation wizard pops up automatically. For detailed information about installation wizard, refer to **Chapter 3. Installation Wizard**.



8. System



8.1 Status

You can view system information.

1. Press the **MENU** button.
2. Select **System** using the **▲/▼** button and press the **OK** or **▶** button.
3. Select **Status** using the **▲/▼** button and press the **OK** or **▶** button.

Note: DTT version in the status menu may be requested when contacting the call center.



8.2 Signal Detection

You can view the signal strength and signal quality of the channel that is currently on AV.

1. Press the **MENU** button.
2. Select **System** using the **▲/▼** button and press the **OK** or **▶** button.
3. Select **Signal Detection** using the **▲/▼** button and press the **OK** or **▶** button.

8.3 Common Interface

You can view the current status of the CI-Module.

1. Press the **MENU** button.
2. Select **System** using the **▲/▼** button and press the **OK** or **▶** button.
3. Select **Common Interface** using the **▲/▼** button and press the **OK** or **▶** button.

Note: The displayed information about a Common Interface may differ depending on Common Interface type.

8. System



8.4 Modem Setup

You can set the modem information appropriate for your modem and test the modem.

1. Press the **MENU** button.
2. Select **System** using the ▲/▼ button and press the **OK** or ► button.
3. Select **Modem Setup** using the ▲/▼ button and press the **OK** or ► button.
4. Configure and test the modem.

This equipment has been approved [Council Decision 98/482/EC - "TBR 21"] for single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact your equipment supplier in the first instance.

9. Pay per View services



9.1 MEDIASET PREMIUM

You can view the information on the card and the list of purchased programmes.

1. Press the **MENU** button.
2. Select **Pay per View services** using the **▲/▼** button and press the **OK** button.
3. Select **MEDIASET PREMIUM** using the **▲/▼** button and press the **OK** button.
4. Select **CARD INFORMATION** using the **▲/▼** button and press the **OK** button to view the information on the card.
5. Select **SELECTED PROGRAMS** using the **▲/▼** button and press the **OK** button to view the list of purchased programmes.



9.2 Irdeto/Conax Conditional Access

You can view the current status of the Conditional Access.

1. Press the **MENU** button.
2. Select **Pay per View services** using the **▲/▼** button and press the **OK** button.
3. Select **Irdeto/Conax Conditional Access** using the **▲/▼** button and press the **OK** button.
4. Check the information of the Conditional Access.






9.3 PANGEA

1. Press the **MENU** button.
2. Select **Pay per View services** using the **▲/▼** button and press the **OK** button.
3. Select **PANGEA** using the **▲/▼** button and press the **OK** button. For more information about **PANGEA**, refer to the **9.1 MEDIASET PREMIUM**.

10. Appendix



10.1 Menu Map

	<ol style="list-style-type: none"> 1. Parental Control 2. Language Setting 3. Time Setting 4. Schedule 5. A/V Control 6. Miscellaneous Settings 7. MHP Settings
Preferences	
	<ol style="list-style-type: none"> 1. Edit Terrestrial Channel Lists 2. Edit Satellite Channel Lists 3. Edit Favourite Channels 4. Automatic Channel Numbering 5. Renew Channel Numbers
Edit Channels	<ol style="list-style-type: none"> 6. Import/Export Channels
	<ol style="list-style-type: none"> 1. Terrestrial Channel Search 2. Satellite Channel Search 3. Software Update 4. Regular Auto Update 5. Default Setting
Installation	
	<ol style="list-style-type: none"> 1. Status 2. Signal Detection 3. Common Interface 4. Modem Setup
System	
	<ol style="list-style-type: none"> 1. MEDIASET PREMIUM 2. Irdeto Conditional Access 3. Conax Conditional Access 4. PANGEA
Pay per View services	

10. Appendix



10.2 Universal Remote Control

1. Using the Universal Remote Control

You can manipulate the TV using the remote control provided by Humax.

Note:

- This function may not be supported depending on the TV model.
 - The listed TV codes may differ from the TV codes set to the remote control.
1. Point the remote control towards the remote control sensor of the TV.
 2. Press the **TV** button, and the **TV** button LED will blink once.
 3. Keep pressing the **TV** button for 3 seconds; then the **TV** button LED will turn on.
 4. Press the 3 digit number of the TV code using the **NUMERIC(0-9)** buttons. Refer to the following **TV Code List**.
 5. The **TV** button LED will blink twice when you detach your finger from the **TV** button.
 6. The TV power will turn on or off when the setting is completed.

Brand	Code
A MARK	002
ABEX	016
ACCENT	004
ACTION	110, 124
ACURA	004
ADMIRAL	030, 042, 076, 099, 123, 159, 160
ADVENTURA	177
ADYSON	016, 063
AIKO	029
AKAI	015, 099, 109, 124, 161, 172, 177
AKURA	064, 071, 161
ALARON	051, 062
ALBA	004, 017, 018, 064, 123, 117
ALBIRAL	157, 158
ALLORGAN	118
ALLSTAR	161
AMBASSADOR	049
AMPLIVISION	063
AMSTRAD	004, 018, 047, 049, 145
AMWAY	161
ANAM	003, 004, 052

Brand	Code
ANAM NATIONAL	024
ANITECH	004, 071, 161
ANSONIC	127
AOC	002, 009, 015, 056
ARC EN CIEL	171
ARCAM	061, 063
ARCHER	002
ASA	159, 160, 161
ASBERG	158
ASUKA	064, 071
ATLANTIC	098
AUDINAC	081
AUDIOSONIC	018, 071
AUDIOVOX	002, 029, 052, 084
AUMARK	026
AUTOVOX	068, 076, 097, 160
BANG & OLUFSEN	160
BARCO	086
BASIC LINE	004, 064
BAUR	018, 087, 097, 099, 102, 108, 175, 176, 177, 178, 181, 185

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Brand	Code
BAYSONIC	052
BEAUMARK	050
BEC	099, 110, 124
BECRESE	040, 099, 108, 109, 110, 172, 177
BEKO	161, 162, 163, 164, 165
BELCOR	009
BELL & HOWELL	006, 038, 106
BEON	018
BINATONE	063
BLACK PANTHER	158
BLACKSTRIPE	040, 106, 108, 172
BLAUPUNKT	059, 060, 061
BLUE SKY	064
BLUE STAR	075
BOOTS	063
BOSCH-BAUER	098
BPL	075
BRANDT ELECTRONIQUE	171
BRADFORD	052
BRINKMANN	123
BRITANNIA	062
BRIONVEGA	159
BROCKWOOD	009, 172, 177
BROKSONIC	002, 067, 085, 172, 177
BROTHER	071
BRUNS	126, 158, 159, 160
BSR	093, 118
BTC	064
BUSH	004, 017, 018, 064, 075, 093, 099, 117, 172
CAMPLE	172, 177
CANDLE	015, 025, 057
CAPEHART	124, 172
CAPSONIC	071
CARNIVALE	015
CARREFOUR	017
CARVER	023, 046

Brand	Code
CASCADE	004
CATHAY	018
CCE	063, 018, 078
CCI	115
CENTURION	018
CENTURY	059, 160
CGE	101, 123
CIE	133, 161
CIMLINE	004, 117
CINERAL	029, 084, 172
CIRCUIT CITY	177
CITIZEN	015, 019, 025, 026, 029, 040, 057, 074
CLAIRTONE	056
CLARIVOX	018, 125, 168
CLATRONIC	098, 127, 158, 161
CME	004, 005, 017, 018, 028, 042, 049, 063, 065, 066, 068, 076, 079, 087
CONCERTO	025
CONDOR	098, 158, 161
CONIC	110, 172
CONTEC	004, 017, 052, 056, 062, 172
CONTINETAL EDISON	141, 171
COSMOS	161
CRAIG	052
CRIPTOVISION	105
CROSLEY	023, 110, 159, 160, 172, 177
CROWN	004, 018, 019, 052, 127, 158, 161
CS ELECTRONICS	062
CTC	098, 158
CURTIS MATHES	006, 015, 019, 020, 021, 023, 026, 030, 035, 038, 025, 040, 044, 084, 106, 172
CXC	052
CYBERTRON	064
DAEWOO	004, 009, 018, 019, 029, 084, 133, 161
DAINICHI	064
DANSAI	018

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Brand	Code
DAYTON	004, 009, 019, 108
DE GRAAF	066, 097, 161
DECCA	018, 028, 129, 161
DECCAVIDEO	161
DENON	035
DESMET	098
DIXI	003, 004, 018, 126
DUAL	097
DUAL TEC	063
DUMINT	127
DUMONT	007, 009, 158, 159, 160, 172, 177
DYNATECH	063, 172, 177
EB TELECOM	105
ECR	172
ECTEC	081
ELBE	116, 168
ELBIT	160, 177
ELECTROBAND	056, 177
ELECTROHOME	080, 106, 110, 172, 177
ELECTROVENDA	161
ELEKTA	071
ELEKTRONIKA	161
ELIN	017, 161
ELITE	040, 064, 098, 106, 172
ELMAN	127, 158, 163
ELTA	004
EMERSON	009, 019, 038, 049, 050, 051, 051, 053, 054, 056, 067, 072, 074, 075, 085, 158, 159, 161, 172, 177
EON	172
ENVISION	015
ERRES	018
ESC	161
EURO-FEEL	071
EUROMANN	071
EUROPHON	127, 158
FERGUSON	018, 163, 166, 167, 168, 169
FIDELITY	062, 097, 104

Brand	Code
FINLADIA	106
FINLUX	018, 028, 051, 093, 129, 158, 160, 161
FIRST LINE	118, 004, 062, 063
FISHER	038, 041, 063, 097, 106, 108, 126, 160, 172
FORMENTI	018, 098, 103, 160, 161
FORTRESS	160, 172
FRABA	161
FRONTECH	042, 071, 099
FUJITSU	028, 051, 124, 172, 177
FUNAI	047, 051, 052, 071, 118, 172, 177
FUTURETECH	052
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GEC	018, 028, 063, 095, 110, 129, 161
GELOSO	004, 009
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ICE	063, 071, 161
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INDESIT	068
INDIANA	018
INFINITY	023
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INTERFUNK	018, 042, 095, 097, 099, 159, 160, 161
INTERVISION	018, 063, 071, 127, 144, 158, 161
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JVC	017, 022, 045, 054, 172
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SCOTT	009, 050, 051, 052, 067, 172, 177
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SELECO	042, 076, 099, 100, 119, 120, 122
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SONOKO	004, 018, 071
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TECHNICS	007, 020, 021, 070
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TECNISON	161
TEKNIKA	006, 009, 019, 023, 025, 026, 029, 036, 051, 052, 057
TELEAVIA	171
TELECO	135
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TELETON	017, 057, 063, 097, 099
TELEVIDEON	098
TENSAI	064, 093, 098, 118, 158, 161
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THOMAS	110, 124, 177
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THORN	018, 028, 040, 087, 107, 108, 110, 112, 128, 129, 161, 163, 165, 168, 172, 177
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WALTHAM	063, 094, 099
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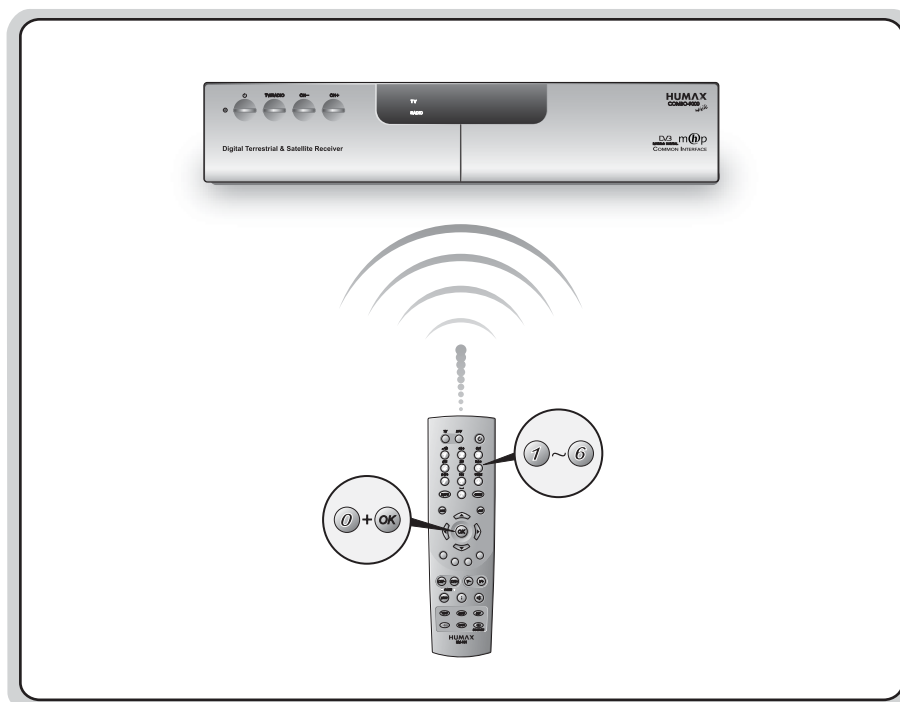


10.3 Multi Custom Code

If you are using more than two receivers that have the same custom code, reset the custom code of the remote control as the following.

1. If you have other HUMAX receivers supporting the multi custom code, turn them off to prevent change of the custom code.
2. Point the remote control towards the remote control sensor of the receiver.
3. Press the **0** and **OK** button for 5 seconds.
4. Press the **NUMERIC** button (**from 1 to 6**) to select the mode.
5. The multi custom code setting is completed.

Note: If the receiver does not operate, reset the custom code to another number (from 1 to 6).



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10.4 Trouble Shooting

Before contacting your local service centre, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service centre for further instructions.

1. No message displayed on the front panel. (The product will not switch on.)

- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Connect the power cable to a different power outlet.

2. No picture on TV set

- Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
- Make sure that the AV cable is firmly connected to the TV.
- Make sure that the antenna cable is properly connected to the product.
- Make sure that the antenna setting in the menu is correct.
- Check the brightness level of the TV.
- Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.
- Press the SOURCE button if the product is in external input mode.

3. Poor picture/sound quality

- Install the antenna in an obstacle-free place.
- Make sure there is no mobile phone or microwave oven near the product.
- Keep the power and the antenna cable for the satellite apart from each other.
- Adjust the antenna direction to get the better picture.
- Set the antenna power in menu to On, if you use the active antenna to improve the reception.
- Check the signal levels and adjust your antenna if the level is too low. The signal level may be affected by weather conditions.

Note: If the antenna is covered with snow or the RF is weakened by heavy rain, the condition of the sound and picture may temporarily be poor. However, the poor sound and picture quality due to weather conditions cannot be accepted as a malfunction of product.

- Check that your dish alignment is correct.
- Change the satellite dish for a larger one as this will increase the signal levels received.
- Replace the LNB with a lower noise factor in cases where the noise factor is too high.
- Replace the LNB with a new one in case it is damaged or out of order.

4. No or poor sound

- Check that your AV cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option in the AV menu.

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5. Remote control does not operate.

- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.

6. Cannot make reservations.

- Check that no previous reservations are conflicting with the new reservation.
- Check that the product is switched on at the time of the reservation.

7. No password information is given.

- The default password is always **0000**.

8. Channel search does not work.

- Make sure that the antenna setting in the menu is correct.
- Use the appropriate antenna capable of receiving VHF or UHF channels for your area.

9. Cannot update new software.

- You can get an update. If the product does not show a message requesting update, that means no software is available.

10. Cannot watch scrambled channels.

- Check that you have the appropriate Smartcard or CI-Module. Reinsert the Smartcard or CI-Module and make sure it initializes correctly.
- Check in the menu that the product is detecting the Smartcard or CI-Module.
- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Ensure that the Smartcard or CI-Module is not damaged.

11. Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Contact your network operator for more information.

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10.5 Error Message

Error message	Possible causes	What to do
No or bad signal	The satellite dish is not pointing at the satellite.	Adjust dish alignment.
	Signal is too weak.	Connect a signal amplifier.
	Satellite dish is too small.	Change to a larger dish.
	Problem with LNB.	Change the LNB.
	The aerial is not pointing properly.	Adjust aerial. Check the cable from the aerial. If you cannot resolve the problem, you may need to have your aerial and installation tested by a professional.
The channel is scrambled or not available.	The channel has a signal, but no audio or video is provided. The channel has not been deleted by broadcasting company.	Confirm if the channel is currently on air. Remove the channel from the channel list and check for new transponder details.
	The channel is for data broadcasting.	The channel cannot be viewed with the appropriate model that supports data channels.
	Smartcard is not plugged in.	Insert Smartcard.
	Wrong Smartcard is in use.	Insert the appropriate Smartcard for the channel(s) you wish to view.
	Smartcard is not plugged in correctly.	Reinsert Smartcard; ensure that it is inserted correctly.
	Smartcard is damaged.	Contact your Smartcard retailer or channel broadcaster for a Smartcard replacement.
Audio not available	The channel has a video signal, but no audio is provided.	Press the audio button on your remote control to confirm that the channel has audio options.

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Error message	Possible causes	What to do
CI module not installed.	CI module is not installed.	Insert CI module.
	CI module is not inserted correctly	Reinsert CI module.
	CI module is not recognized.	Insert a different CI module to check if your existing module is working.
Invalid CI module	Wrong CI module.	Insert the correct CI module.
	CI module is not inserted correctly.	Remove and reinsert the CI module.
	CI module is damaged	Replace CI module.
Short LNB	LNB cable is short.	Replace LNB Cable.
	LNB is internally short.	Replace LNB.
	Alien substance is inserted in LNB IN port and port may be damaged.	Remove the alien substance and contact local service center in case damaged has occurred.

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10.6 Specification

Terrestrial Tuner & Channel	
Input Connector	IEC 169-2 Female
Frequency Range	177.5MHz to 226.5MHz (VHF) 470MHz to 862MHz (UHF)
Signal Level	-10 to -70 dBm
Demodulation	OFDM
Mode	2K, 8K
FEC Mode	1/2, 2/3, 3/4, 5/6 and 7/8
Guard Intervals	1/4, 1/8, 1/16 and 1/32
Satellite Tuner & Channel	
Input Connector	IEC 169-24 (F-Type)
Frequency Range	950MHz to 2150 MHz
Signal Level	-25 to -70 dBm
LNB Power & Polarisation	18V/13Vdc, Current : Max. 500mA, overcurrent Protection
22kHz Tone	22kHz \pm 4kHz Tone on/off
DiSEqC Control	Version 1.0/1.2/2.0 Compatible, USALS, SCD
FEC Mode	1/2, 2/3, 3/4, 5/6 and 7/8
Demodulation	QPSK
Input Symbol Rate	2 to 45 MS/s
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG2 MP@ML
Input Rate	15 Mbit/s Max
Aspect Ratio	4:3, 16:9
Video Resolution	720 x 576
Audio Decoding	MPEG-2 Audio/MusiCam Layer I & II
Audio Mode	Single/Dual/Joint stereo/Stereo

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Memory	
Flash Memory	8 Mbytes
Graphic (MPEG)/System DRAM	64 Mbytes
A/V & Data In/Out	
Video	RCA/TV SCART/VCR SCART Video Output (CVBS, S-Video, RGB)
Audio	RCA/TV SCART/VCR SCART Volume and Mute Control (Resolution:20bits DAC, MAX. 2Vrms)
RS-232C	9 pin Socket type
Power Supply	
Input Voltage	90-250V a.c., 50/60Hz
Type	SMPS
Power Consumption	Operation: Max. 28W Standby: Max. 10W
Protection	Separate internal fuse & Lightning protection
Physical Specifications	
Size	310 x 60 x 237 mm
Weight (Net)	1.8 Kg
Operating Temp	0 °C to +45 °C
Storage Temperature	-10 °C to +70 °C

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10.7 Glossary

- **DiSEqC (Digital Satellite Equipment Control)**
A DiSEqC compatible receiver relies on a switching box which detects the 22kHz tone pulsing rapidly on and off. In this way, a specially designed receiver can control numerous LNBs through a DiSEqC switching box.
- **Dolby Digital**
An encoding system that digitally compresses up to 5.1 discrete channels of audio (left front, centre, right front, left surround, right surround) into a single Bitstream. A low frequency effect (LFE) channel is included providing the sound needed for special effects.
- **EPG (Electronic Programme Guide)**
An electronic equivalent to a printed television listings magazine; it is an application used with digital set-top boxes and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each program. The information supplied in the EPG is sent and updated by the channel broadcaster.
- **FEC (Forward Error Correction)**
A technique for error control of data transmission.
- **Frequency**
The property of a signal measured in cycles per second (=Hz).
- **FTA (Free- To-Air)**
An unscrambled broadcaster allowing customers to view channels or services without paying any subscription.
- **Hi-Fi (High Fidelity)**
The characteristics of audio devices that can play back all the audio frequencies a person can detect, which is the range of 16Hz~20KHz. Sometimes it is used to indicate good quality of audio devices such as stereo tape recorders.
- **LNB (Low Noise Block)**
A device that is mounted on an arm facing your satellite dish, focusing on satellite signals. A LNB converts signals received from satellite to a lower frequency and sends them to a satellite receiver via coaxial cable.
- **OSD (On Screen Display)**
OSD displays the basic information necessary for the users to configure monitor or TV settings. OSD information may include brightness, contrast, tuning, RGB adjustment, and screen size and position.
- **OTA (Over the Air)**
A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.
- **Polarization**
The direction of the electrical and magnetic fields of a signal. Satellites use both vertical and horizontal polarisation. Means that a frequency can be used twice.

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- **RF (Radio Frequency)**
Television signals are modulated onto RF signals and are then demodulated by your television's or STB's tuner.
- **RS-232C**
A connection to allow you to connect to a PC to update receiver's software.
- **SCART**
A 21-pin connector standard to connect two pieces of Audio-Visual equipment such as a TV and a VCR. Each device will have a 21-pin female connection; a cable with male connection at both ends is used for connecting the devices.
- **Smartcard**
A credit card sized card that contains updateable chip memory. It is used for accessing Pay TV (encrypted) channel or services when inserted into an appropriate receiver.
- **S/PDIF (Sony/Philips Digital Interface format)**
A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.
- **Transponder**
A satellite is divided up in parts called transponders. A transponder is one distribution section of the satellite. Each transponder can be used for distribution of several channels or services.

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10.8 Service and Support

You can receive information such as a troubleshooting guide, software upgrades and product support guide from the following web sites and call center (Hotline).

Please try to contact to your local dealers first when you have any problem.

Call Center

Service customers

Modernizations generic and technical software, information

<http://www.mediasat.com> (technical area) **Italiano**

Technical Hotline: 899 100080

This service is charged with a cost per minute of 1.€+VAT.

The service is not enabled for Omnitel users.

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